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CHAPS & CHAPSO

Zwitterionic detergents that protect the native state of proteins.**Applications:**

- Solubilizing the opiate receptor from rat brain cell membranes, while retaining the reversible opiate binding property of the receptor¹
- Purifying microsomal signal peptidase as a complex²
- Solubilizing dopamine D^{2,3}, muscarinic⁴, and opiate receptors⁵ from brain tissue

Features

- Combine all the advantages of polar, sulfobetaine-containing detergents and hydrophobic, bile salt, anionic detergents into a single molecule...with superior membrane protein solubilization properties
- Non-denaturing
- Able to disrupt nonspecific protein interactions
- Less protein aggregation than non-ionic detergents
- Electrically neutral
- Easily removed by dialysis

References

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Pierce provides several high-purity, low peroxide-containing detergents in clear ampules sealed under nitrogen.

Brij-35 Detergent

A non-ionic detergent useful for the isolation of functional membrane complexes.

CHAPS & CHAPSO

A non-denaturing detergent able to disrupt nonspecific protein interactions and has less protein aggregation than non-ionic detergents. It is electrically neutral and easily removed by dialysis.

Octyl β -Glucoside

A non-ionic detergent that has been widely used for membrane protein solubilization.

Octyl β -Thioglucopyranoside

Offers solubilizing power comparable to Octyl β -Glucoside, with increased stability.

SDS (Sodium Dodecyl Sulfate-Lauryl)

Unique distribution of carbon chain lengths in sequanal grade SDS (lauryl) is advantageous in resolving viral proteins during gel electrophoresis.

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Greater than 98% C12 alkyl sulfate, with low levels of hexadecyl sulfate C16, which can inhibit renaturation.

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Active ingredient is supplied as a purified 10% aqueous solution ampuled under nitrogen.

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10 different detergents, now it's easy to find the best detergent for your application!

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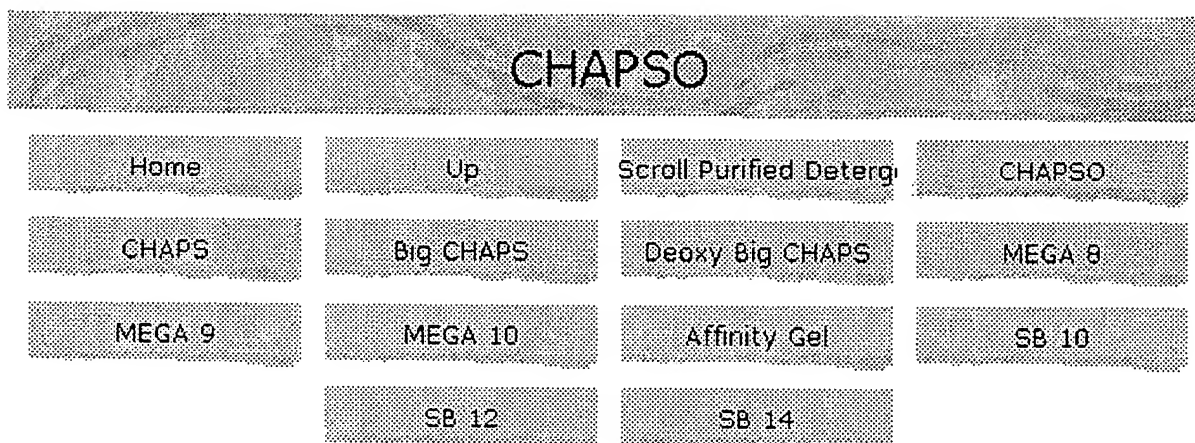
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The purified zwitterionic detergent CHAPSO to solubilize proteins is available in bulk quantities.

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- ✓ Purity >99% by TLC
- ✓ Conductivity <50 mircomhos in 10% aqueous solution
- ✓ CMC in water ca. 8mM (50%)
- ✓ Aggeation number (water) ca.11

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CHAPSO has a cholic acid and sulfobetaine moiety in the structure. The low background absorbance in the UV region is

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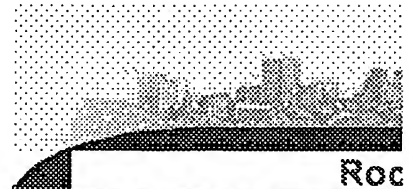
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